

(1) GENERATOR NAME UMETCO MINERALS CORP.
 ADDRESS 137 -- 47th Street
 CITY Niagara Falls STATE New York
 CONTACT G. E. Walck PHONE (716) 278-3361

BARNWELL WASTE MANAGEMENT FACILITY
 Operated by CHEM NUCLEAR SYSTEMS, INC
 P O Box 726, Barnwell, South Carolina 29812
 (803) 259 1781
RADIOACTIVE SHIPMENT MANIFEST FORM

(4) Tri-
 CARRIER State ADDRESS Joplin, Missouri 64801
 TELEPHONE 417-624-3131 SHIPPING DATE 8-22-84
 SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE .024 mR/hr
 SHIPMENT NO 615-3004 LINER SERIAL NO -
 DRIVER SIGNATURE Bd. Brantley DATE 8-22-84

(2) consigned to
 CHEM NUCLEAR SYSTEMS, INC
 P O BOX 726 OSBORN ROAD
 BARNWELL, S.C. 29812

(3) USE THIS NUMBER ON ALL CONTINUATION PAGES

VOLUME ALLOCATION NO 0884-325A PAGE 1 OF 2

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s --Radioactive Material	UN2918
5	26218	Radioactive Material, low specific activity, n o s --Radioactive Material	UN2912
		Radioactive Material, n o s --Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s --Radioactive Material	UN2910
		Radioactive Material, special form, n o s --Radioactive Material	UN2974
		Radioactive Material, instruments and articles--Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)					SOURCE (Pounds)
		ALL ISOTOPIES	TRITIUM	C 14	Tc 99	I 129	
325	5	034	NP	NP	NP	NP	0 5

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	N/A
U 235	↓
TOTAL	↓

(8) TOTAL PALLET VOLUME (CU FT) N/A

(9) WASTE DESCRIPTION Contaminated Soil Misc Debris (10) PHYSICAL FORM/SOLIDIFICATION AGENT Solid (11) CHEMICAL FORM AND NAME AND % OF CHELATING AGENT(S) Metal Oxides (12) WASTE FORM CLASS A B C

(13) Yes () No THIS VEHICLE IS CONIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(15) Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended and the Nuclear Regulatory Commission's License No 12 13536 01 as amended and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment and further certification is made that the inspection revealed no items of non compliance with all applicable laws rules and regulations

(14) IMPORTANT This is to certify that the above named materials are properly classified described packaged marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Signature _____ Date 8-22-84
 Company Umetco Minerals Corporation

Date 8-22-84 By _____
 Title and Organization Construction Superintendent - Umetco Minerals Corp
 Telephone No (716) 278-3361

- This material meets all license requirements
- This material was disposed of in accordance with license
- Discrepancy _____

Date 8/27/84
 Authorized Signature [Signature] Title [Signature]
 AUG 30 1984

Tri-State Motor Transit Company

Carrier's No 65587

Name of Carrier

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

UMETCO MINERALS CORPORATION

AT ~~Manhattan, Ohio~~ August 22, 19 84 From

METALS DIVISION
UNION CARBIDE CORPORATION

Niagara Falls, NY For use via carrier truck under the exclusive/sole use shipments/movements

the property described below in apparent good order except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood through out this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof if this is a rail or a rail water shipment or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns

Consigned to CHEM NUCLEAR SYSTEMS, INC. UCC Metals Division BARNWELL MANAGEMENT FACILITIES SHIPPER'S ORDER NO CUSTOMER'S ORDER NO

Destination BARNWELL (Osborn Road) State S. Carolina County Montrose BARNWELL

Route _____

Delivering Carrier Tri-State Motor Transit Car or Vehicle Initials 8218 No 448132 Seal No 262504

No Packages	Kind of Package, Description of Articles, Special marks, and Exceptions	*Weight (Sub to correction)	+Class or Rate	Check Column
5	Radioactive Materials LSA. nos (325 cu. ft.)			
	Radioactive Material UN 2912			
	By Natural			
	Uranium/Thorium Residues (From Chemical Processing)			
	0.016 Max Curies per Package Less than one (1) pound source material - solid, metal oxide, contaminated soil, building rubble, wood and plant equipment.			
	This is to certify that the above named materials are properly classified described packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation			
	Signed <u>G. E. Walck</u> 8-22-84			
	Vehicle assigned for sole use of consignor Do not load other freight on the vehicle do not transfer in route and do not break the seal on truck			
	Carrier hereby acknowledges that prior to or at the time this shipment was offered for transportation the shipper provided or affixed according to applicable regulations the required placards or orange panels (including prescribed identification numbers) for each hazardous material named hereon			
	Signed <u>P. L. Boonchany</u>			

Subject to Section 7 of Conditions of applicable bill of lading if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

(Signature of consignor)

If charges are to be prepaid, write or stamp here, To Be Prepaid

Third Party PREPAID (See Below)*

Received \$ _____ to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per _____ (The signature here acknowledges only the amount prepaid)

Charges advanced

\$ _____

This shipment is correctly described

Correct weight is _____ lbs

Subject to verification by the *L.G. Evans Umetco Minerals Corp.

P.O. Box 97 Niagara Falls, NY 14302

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

METALS DIVISION **UNION CARBIDE CORPORATION** Umetco Minerals Corporation

Per G. E. Walck 8-22-84
Permanent postoffice address of shipper UC 326-34

Shipper _____ Agent _____
Per _____

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions		
1. Name and Address of Shipper: Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment: (a) Name G. E. Walck (b) Title Construction Superintendent (c) Telephone No. (716) 278-3361
3. Radioactive Waste Transport Permit No. 0211-31-84-X		4. Shipment Identification No.: 0884-325A
5. Location from which waste will be shipped Same as (1) Above		6. Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812
7. Scheduled Date of Departure of Shipment: August 22, 1984		8. Estimated Date of Arrival of Shipment August 24, 1984
9. Carrier: Tri-State Motor Transit	10. Type of Transport Vehicle: Closed Van	11. Trailer No. and Owner (if available)

12. Routes shipment will follow in State of South Carolina (Be Specific).

I-20, I-26, US-321, S.C. 3 and S.C. 64

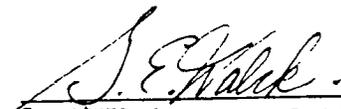
Manifest Summary		
13. Type Container or Cask: Wood Boxes	14. Container Spec. CFR 49 173.392 (c)	15. Total No. of Containers 6
16. Waste Description, Physical and Chemical Form Metal Plant Oxides, Bldg. Rubble, Wood and Hardward	17. Prominent Radionuclides. Uranium (Nat.) .0028 Thorium (Nat.) .004	
18. Total Curies (M.Ci) .068	19. Transport Group III	20. Total Cubic Feet 325
21. Waste Classification		
<input checked="" type="checkbox"/> Radioactive LSA <input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Bulk LSA <input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Normal Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity
		<input type="checkbox"/> Special Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity
		<input type="checkbox"/> Fissile <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date August 8, 1984

G. E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper


Signature (G. E. Walck)

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received.

Date of Delivery

Signature of Consignee or authorized Agent

Typed or Printed Name and Title

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

Part I: Shipper's Certificate of Compliance

1. Name of Shipper and Address: Umetco Minerals Corporation 137 - 47th Street Niagara Falls, NY 14302 Telephone No. (716) 278-3361	2. Shipment Identification No. 0884-325A 3. Transport Permit No. 0211-31-84-X
-------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date August 22, 1984

G.E. Walck, Construction Superintendent
 Typed Name and Title of Agent of Shipper

G.E. Walck 8-22-84
 Signature

Part II: Carrier's Certification

1. Name of Carrier and Address: Tri-State Motor Transit Company P.O. Box 113 Joplin, Missouri 64801 Telephone No. (800) 641-7591	2. Shipment Identification No. 0884-325A 3. Transport Trailer No. 448132
4. Scheduled Date of Departure of Shipment: August 22, 1984	5. Estimated Date of Arrival of Shipment: August 24, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date August 22, 1984

Bob Beuchamp
 Typed or Printed Name and Title

Bob Beuchamp
 Signature

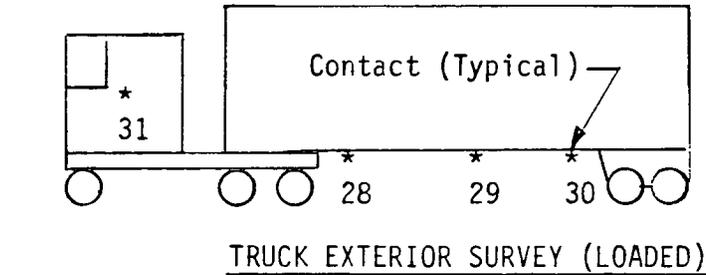
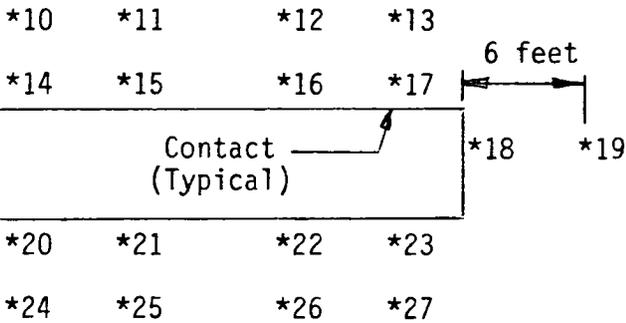
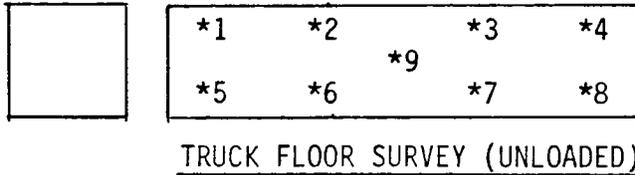
UMETCO MINERALS CORPORATION
 NIAGARA FALLS, NEW YORK

DATE 8-22-84

TRACTOR NO. 8218

SHIPMENT NO. 615-3004

TRAILER NO. 448132



NO.	δ	B
1	.004	60
2	.006	—
3	.007	—
4	.008	60
5	.005	70
6	.007	—
7	.006	—
8	.008	60
9	—	70
10	.010	—
11	.009	—
12	.011	—
13	.010	—
14	.015	—
15	.008	—
16	.016	—
17	.011	—
18	.010	—
19	.011	—
20	.018	—
21	.012	—
22	.010	—
23	.012	—
24	.011	—
25	.010	—
26	.009	—
27	.010	—
28	.034	—
29	.008	—
30	.014	—
31	.006	—

LEGEND:

* Location of Reading

δ = mR/hr Ludlum Model 19 (S/N 22534)

B = dpm/100 cm² Ludlum Model 15 (S/N 28886)
 w/Ludlum Model 44-9 Probe (S/N 12708) - Eff. 42%

J. E. Walsh
 (Survey performed by)

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-16-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-127 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 5272

RADIATION SURVEY (Total)

CONTACT .032 mR/hr.

3 FEET .017 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29526

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-16-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84 - 128 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5192

RADIATION SURVEY (Total)

CONTACT .034 mR/hr.

3 FEET .015 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29525

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-16-84

CONTAINER SURVEY

BOX CONTROL NO. UM84 -129 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5324

RADIATION SURVEY (Total)

CONTACT .040 mR/hr.

3 FEET .014 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29524

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-16-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84 130 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5120

RADIATION SURVEY (Total)

CONTACT .046 mR/hr.

3 FEET .014 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29523

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-16-84

CONTAINER SURVEY

BOX CONTROL NO. UM84-132 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 5310

RADIATION SURVEY (Total)

CONTACT .028 mR/hr.

3 FEET .012 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29521

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

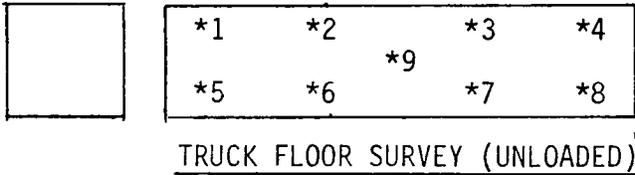
UMETCO MINERALS CORPORATION
 NIAGARA FALLS, NEW YORK

DATE 8-22-84

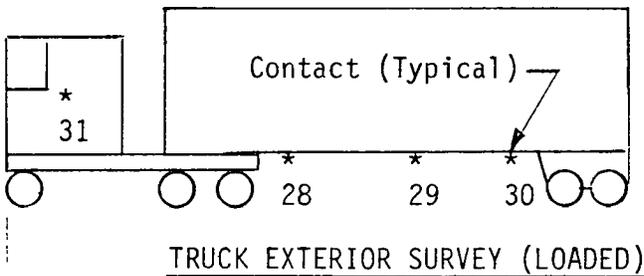
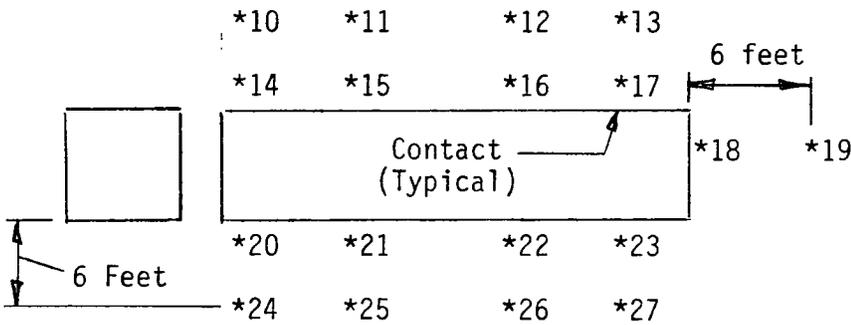
TRACTOR NO. 8218

SHIPMENT NO. 615-3004

TRAILER NO. 448132



NO.	$\bar{\sigma}$	β
1	.004	60
2	.006	—
3	.007	—
4	.008	60
5	.005	70
6	.007	—
7	.006	—
8	.008	60
9	—	70
10	.010	—
11	.009	—
12	.011	—
13	.010	—
14	.015	—
15	.008	—
16	.016	—
17	.011	—
18	.010	—
19	.011	—
20	.018	—
21	.012	—
22	.010	—
23	.012	—
24	.011	—
25	.010	—
26	.009	—
27	.010	—
28	.034	—
29	.008	—
30	.014	—
31	.006	—



LEGEND:

* Location of Reading

$\bar{\sigma}$ = mR/hr Ludlum Model 19 (S/N 22534)

β = dpm/100 cm² Ludlum Model 15 (S/N 28886)
 w/Ludlum Model 44-9 Probe (S/N 12708) - Eff. 42%

J. E. Walsh
 (Survey performed by)

Union Carbide Corporation
 LINDE DIVISION • GAS PRODUCTS COMPLEX
 4501 ROYAL AVENUE NIAGARA FALLS, N.Y. 14304

WEIGHT TICKET

17	101154	DB/22/84				ST
	8103		8218			
	22		22			
	GROSS		34100			

	101154	FB/22/84				Tr
	8103		8218			
	22		22			
	GROSS		34960			

	101170	DB/22/84				Gross
	8103		8218			
	22		22			
	GROSS		36500			

	101124	DB/22/84				Trailer
	8103		8218			
	22		22			
	GROSS		34100			

cu

Union Carbide Corporation

LINDE DIVISION • GAS PRODUCTS COMPLEX

4501 ROYAL AVENUE NIAGARA FALLS, N.Y. 14304

WEIGHT TICKET

0755408	22/81
H48000	5710
22	22
07050	00040

101420	08/22/84
0430	0218
0000	02
00000	55520
TARE	00000
NET	55520

(1) GENERATOR NAME UMETCO MINERALS CORPORATION
 ADDRESS 137 - 47th Street
 CITY Niagara Falls STATE New York
 CONTACT G. E. Walck PHONE (716) 278-3361

BARNWELL WASTE MANAGEMENT FACILITY
 Operated by CHEM-NUCLEAR SYSTEMS, INC
 P O Box 726, Barnwell, South Carolina 29812
 (803) 259-1781
RADIOACTIVE SHIPMENT MANIFEST FORM

(4) **Tri-**
 CARRIER State ADDRESS Toplin, Missouri 64801
 TELEPHONE 617-624-3131 SHIPPING DATE 9/4/84
 SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE 032 mR/hR
 SHIPMENT NO 615-3005 LINER SERIAL NO _____
 DRIVER SIGNATURE Clinton Williams DATE 9-4-84

(2) **consigned to**
 CHEM NUCLEAR SYSTEMS, INC
 P O BOX 726, OSBORN ROAD
 BARNWELL, S C 29812

(3) USE THIS NUMBER ON ALL CONTINUATION PAGES VOLUME ALLOCATION NO PAGE 1 OF 2
0094 2114

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
<u>8</u>	<u>39093</u>	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS						
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)				SOURCE (Pounds)
		ALL ISOTOPES	TRITIUM	C 14	Tc 99	
<u>520</u>	<u>8</u>	<u>.054</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>0.8</u>

(7) TOTAL SNM	
ISOTOPE	GRAMS
U-233	<u>N/A</u>
U-235	<u>1</u>
TOTAL	<u>1</u>

(9) WASTE DESCRIPTION Contaminated Soil Misc. Debris (10) PHYSICAL FORM/SOLIDIFICATION AGENT Solid

(8) TOTAL PALLET VOLUME (CU FT) N/A
 (11) CHEMICAL FORM AND NAME AND % OF CHELATING AGENT(S) Metal Oxides (12) WASTE FORM CLASS A B C

(13) (X) Yes () No THIS VEHICLE IS CONIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(15) "Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended, and the Nuclear Regulatory Commission's License No 12 13536 01 as amended, and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment, and further certification is made that the inspection revealed no items of non compliance with all applicable laws, rules and regulations"

(14) IMPORTANT "This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation
 Signature G. E. Walck
 Company Umetco Minerals Corp Date 9/4/84

Date 9/4/84 By G. E. Walck
 Title and Organization Construction Superintendent - Umetco Minerals Corp.
 Telephone No (716) 278-3361

CNSI USE ONLY

- This material meets all license requirements
 - This material was disposed of in accordance with license
 - Discrepancy _____
- Date _____
 Authorized Signature _____ Title _____

TRIPLICATE COPY
 Form No CNS-201
 (9-83)

SEE INSTRUCTIONS ON REVERSE SIDE FOR FILING OUT THIS FORM

Arrival Date _____ Arrival Survey No _____
 Date/Time Buried _____ H P Initial _____
 Trench No _____ Location Code _____
 Waste Class Code _____
 Personnel Exposure _____

UCCNHT0002210

(1) GENERATOR NAME UMETCO MINERALS CORPORATION

ADDRESS 137 - 47th Street

CITY Niagara Falls STATE New York

CONTACT G.E. Walck PHONE (716)278-3361

(2) **consigned to**
CHEM NUCLEAR SYSTEMS, INC.
P O BOX 726, OSBORN ROAD
BARNWELL, S C 29812

BARNWELL WASTE MANAGEMENT FACILITY

Operated by CHEM-NUCLEAR SYSTEMS, INC
P O Box 726, Barnwell, South Carolina 29812
(803) 259-1781

RADIOACTIVE SHIPMENT MANIFEST FORM

(3) USE THIS NUMBER ON
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO

PAGE 1

0984-211A

OF 2

(4) Tri-
CARRIER State ADDRESS Joplin, Missouri 64801

TELEPHONE 417-624-3131 SHIPPING DATE 9/4/84

SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE .032 mR/hr

SHIPMENT NO 615-3005 LINER SERIAL NO —

DRIVER SIGNATURE Clinton Williams DATE 9-4-84

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
<u>8</u>	<u>39083</u>	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)					SOURCE (Pounds)
		ALL ISOTOPE	TRITIUM	C 14	Tc 99	I 129	
<u>520</u>	<u>8</u>	<u>.054</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>0.8</u>

(7) TOTAL SNM	
ISOTOPE	GRAMS
<u>U-233</u>	<u>N/A</u>
<u>U 235</u>	<u>↓</u>
<u>TOTAL</u>	<u>↓</u>

(8) TOTAL PALLET
VOLUME (CU FT) N/A

(9) WASTE DESCRIPTION Contaminated Soil (10) PHYSICAL FORM/
Misc. Debris SOLIDIFICATION AGENT Solid

(11) CHEMICAL FORM AND
NAME AND % OF CHELATING AGENT(S) Metal Oxides

(12) WASTE FORM CLASS
 A B C

(13) (X) Yes () No THIS VEHICLE IS CONIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(15) "Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended, and the Nuclear Regulatory Commission's License No 12 13536 01 as amended, and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment, and further certification is made that the inspection revealed no items of non compliance with all applicable laws, rules and regulations"

(14) IMPORTANT "This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Date 9/4/84 By G.E. Walck

Signature G.E. Walck

Title and Organization Construction Superintendent - Umetco Minerals Corp.

Company Umetco Minerals Corp Date 9/4/84

Telephone No (716) 278-3361

This material meets all license requirements

This material was disposed of in accordance with license

Discrepancy _____

Date 9/4/84

Authorized Signature [Signature]

Title [Signature]

SEP 12 1984

UCCNHT0002212

Union Carbide Corporation

LINDE DIVISION • GAS PRODUCTS COMPLEX

4501 ROYAL AVENUE NIAGARA FALLS, N.Y. 14304

WEIGHT TICKET

3992
445102

09156103/04/85

NIOP 3992

CR255 325401

3.0 AT DESTINATION (Union Carbide Corporation, Uravan, Colorado)

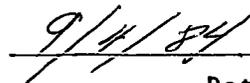
- 3.1 Give notification of arrival and receive guidance to unloading site.
- 3.2 Examine security seals and inspect outside of truck for damage or pilfering.
- 3.3 The shipment must be unloaded by Consignor from the transport vehicle in which originally loaded.
- 3.4 UCC or its representative will certify vehicles clean and available for Unrestricted Use and decontaminate if necessary.

4.0 PENALTY

- 4.1 Any deviation from these instructions or violations of State and Federal laws could result in carrier penalty.



Driver's Signature



Date

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

Part I: Shipper's Certificate of Compliance

1. Name of Shipper and Address: Umetco Minerals Corporation 137 - 47th Street Niagara Falls, NY 14302 Telephone No. (716) 278-3361	2. Shipment Identification No. 0984-211A
	3. Transport Permit No. 0211-31-84-X

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date September 4, 1984
G.E. Walck, Construction Superintendent

Typed Name and Title of Agent of Shipper _____ Signature _____

Part II: Carrier's Certification

1. Name of Carrier and Address: Tri-State Motor Transit Company P.O. Box 113 Joplin, Missouri 64801 Telephone No. (800) 641-7591	2. Shipment Identification No. 0984-211A
	3. Transport Trailer No. 445102
4. Scheduled Date of Departure of Shipment: September 4, 1984	5. Estimated Date of Arrival of Shipment: September 6, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date September 4, 1984

Typed or Printed Name and Title _____ Signature _____

(1) GENERATOR NAME UMETCO MINERALS CORPORATION
 ADDRESS 137 - 47th Street
 CITY Niagara Falls STATE New York
 CONTACT L.E. Walck PHONE (716) 278-3361

BARNWELL WASTE MANAGEMENT FACILITY
 Operated by CHEM NUCLEAR SYSTEMS, INC
 P O Box 726, Barnwell, South Carolina 29812
 (803) 259-1781
RADIOACTIVE SHIPMENT MANIFEST FORM

(4) CARRIER Fri- ADDRESS Joplin, Missouri 64601
 TELEPHONE 417-624-1131 SHIPPING DATE 9/4/84
 SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE 0.32 mR/hr
 SHIPMENT NO 015-3005 LINER SERIAL NO _____
 DRIVER SIGNATURE [Signature] DATE 9/4/84

(2) consigned to
 CHEM NUCLEAR SYSTEMS INC
 P O BOX 726, OSBORN ROAD
 BARNWELL SC 29812

(3) USE THIS NUMBER ON ALL CONTINUATION PAGES
 VOLUME ALLOCATION NO 0984-211A PAGE 1 OF 2

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s - Radioactive Material	UN2918
		Radioactive Material, low specific activity, n o s - Radioactive Material	UN2912
<u>4</u>	<u>390.83</u>	Radioactive Material, n o s - Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s - Radioactive Material	UN2910
		Radioactive Material, special form, n o s - Radioactive Material	UN2974
		Radioactive Material, instruments and articles - Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10 CFR 20.311)					SOURCE (Pounds)
		ALL ISOTOPE	TRITIUM	C 14	Tc 99	I 129	
<u>520</u>	<u>8</u>	<u>0.54</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>1.8</u>

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	N/A
U 235	
TOTAL	

(9) WASTE DESCRIPTION Contaminated Soil (10) PHYSICAL FORM/SOLIDIFICATION AGENT Misc. Debris Solid

(11) CHEMICAL FORM AND NAME AND % OF CHELATING AGENT(S) Metal Oxides (12) WASTE FORM CLASS Q A B C

(13) (X) Yes () No THIS VEHICLE IS CONSIGNOR EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(15) Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended and the Nuclear Regulatory Commission's License No 12 13536 01 as amended and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment and further certification is made that the inspection revealed no items of non compliance with all applicable laws, rules and regulations

(14) IMPORTANT "This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation"
 Signature [Signature]
 Company Umetco Minerals Corp Date 9/4/84

Date 9/4/84 By [Signature]
 Title and Organization Construction Superintendent - Umetco Minerals Corp
 Telephone No (716) 278-3361

CNSI USE ONLY

- This material meets all license requirements
 - This material was disposed of in accordance with license
 - Discrepancy _____
- Date _____
 Authorized Signature _____ Title _____

TRIPLICATE COPY
 Form No CNS 201
 (9-83)

SEE INSTRUCTIONS ON REVERSE SIDE FOR FILLING OUT THIS FORM

Arrival Date _____ Arrival Survey No _____
 Date/Time Buried _____ H P Initial _____
 Trench No _____ Location Code _____
 Waste Class Code _____ Personnel Exposure _____

Attn: SYbil Horton - Volume Allocation No. 0984-211A

Telecopied 9/4

UCCCNHT0002217

Form RHA-PNC
(5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1. Name and Address of Shipper. Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment (a) Name G.E. Walck (b) Title Construction Superintendent (c) Telephone No. (716) 278-3361	
3. Radioactive Waste Transport Permit No. 0211-31-84-X		4. Shipment Identification No. 0984-211A	
5. Location from which waste will be shipped Same as (1) Above		6. Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7. Scheduled Date of Departure of Shipment September 4, 1984		8. Estimated Date of Arrival of Shipment September 6, 1984	
9. Carrier Tri-State Motor Transit	10. Type of Transport Vehicle Closed Van	11. Trailer No. and Owner (if available) 445102.	
12. Routes shipment will follow in State of South Carolina (Be Specific) I-20, I-26, US-321, S.C. 3 and S.C. 64			

Manifest Summary

13. Type Container or Cask Wood Boxes	14. Container Spec. CFR 49 173.392 (c)	15. Total No of Containers 8
16. Waste Description, Physical and Chemical Form Contaminated Soil, Metal Oxides, Bldg. Rubble, Wood and Plant Hardware	17. Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004	
18. Total Curies (mCi) .054	19. Transport Group III	20. Total Cubic Feet 520
21. Waste Classification		
UN2912 <input checked="" type="checkbox"/> Radioactive LSA <input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Bulk LSA <input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Normal Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity
		<input type="checkbox"/> Special Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity
		<input type="checkbox"/> Fissile <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date 8-28-84

G.E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper

J. E. Walck
Signature (G.E. Walck)

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received

Date of Delivery _____

Signature of Consignee or authorized Agent _____

Typed or Printed Name and Title _____

DHEC 802
(5/80)

Original: S. Carolina
Copy. Chem-Nuclear

(Copies of this form may be reproduced locally as needed)

Form RHA-PNC
(5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1 Name and Address of Shipper Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment (a) Name G.E. Walck (b) Title Construction Superintendent (c) Telephone No. (716) 278-3361	
3 Radioactive Waste Transport Permit No 0211-31-84-X		4. Shipment Identification No. 0984-211A	
5. Location from which waste will be shipped Same as (1) Above		6. Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7. Scheduled Date of Departure of Shipment September 4, 1984		8. Estimated Date of Arrival of Shipment September 6, 1984	
9. Carrier Tri-State Motor Transit	10 Type of Transport Vehicle Closed Van	11. Trailer No. and Owner (if available)	
12. Routes shipment will follow in State of South Carolina (Be Specific) I-20, I-26, US-321, S.C. 3 and S.C. 64			

Manifest Summary		
13 Type Container or Cask Wood Boxes	14 Container Spec. CFR 49 173.392 (c)	15 Total No of Containers 8
16 Waste Description, Physical and Chemical Form Contaminated Soil, Metal Oxides, Bldg. Rubble, Wood and Plant Hardware	17 Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004	
18 Total Curies (mCi) .054	19 Transport Group III	20 Total Cubic Feet 520
21 Waste Classification		
<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form
<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	Special Form
		Fissile
		Class I
		Class II
		Class III

UN2912

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date _____

G.E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper


Signature (G.E. Walck)

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received

Date of Delivery _____

Signature of Consignee or authorized Agent

Typed or Printed Name and Title

Form RHA-PNC
(5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1. Name and Address of Shipper Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment (a) Name G.E. Walck (b) Title Construction Superintendent (c) Telephone No. (716) 278-3361	
3. Radioactive Waste Transport Permit No 0211-31-84-X		4. Shipment Identification No.: 0984-211A	
5. Location from which waste will be shipped Same as (1) Above		6 Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7. Scheduled Date of Departure of Shipment. September 4, 1984		8. Estimated Date of Arrival of Shipment September 6, 1984	
9. Carrier Tri-State Motor Transit	10 Type of Transport Vehicle Closed Van	11 Trailer No. and Owner (if available)	

12 Routes shipment will follow in State of South Carolina (Be Specific)

I-20, I-26, US-321, S.C. 3 and S.C. 64

Manifest Summary

13 Type Container or Cask Wood Boxes	14 Container Spec CFR 49 173.392 (c)	15. Total No. of Containers 8		
16 Waste Description, Physical and Chemical Form Contaminated Soil, Metal Oxides, Bldg. Rubble, Wood and Plant Hardware		17 Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004		
18 Total Curies (mCi) .054	19 Transport Group III	20 Total Cubic Feet 520		
21 Waste Classification				
<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form	Special Form	Fissile
<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III

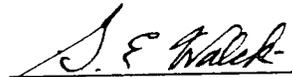
UN2912

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date _____

G.E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper


Signature (G.E. Walck)

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received

Date of Delivery

Signature of Consignee or authorized Agent

Typed or Printed Name and Title

DHEC 802

(5/80)

Original. S. Carolina
Copy: Chem-Nuclear

(Copies of this form may be reproduced locally as needed)

UCCNHT0002220

Form RHA-PNC
(5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1 Name and Address of Shipper Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment: (a) Name G.E. Walck (b) Title Construction Superintendent (c) Telephone No. (716) 278-3361	
3 Radioactive Waste Transport Permit No 0211-31-84-X		4. Shipment Identification No. 0984-211A	
5. Location from which waste will be shipped Same as (1) Above		6. Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7. Scheduled Date of Departure of Shipment September 4, 1984		8. Estimated Date of Arrival of Shipment September 6, 1984	
9. Carrier Tri-State Motor Transit	10 Type of Transport Vehicle Closed Van	11 Trailer No and Owner (if available) 445102	

12. Routes shipment will follow in State of South Carolina (Be Specific)

I-20, I-26, US-321, S.C. 3 and S.C. 64

Manifest Summary

13 Type Container or Cask Wood Boxes	14 Container Spec. CFR 49 173.392 (c)	15. Total No of Containers 8
16. Waste Description, Physical and Chemical Form Contaminated Soil, Metal Oxides, Bldg. Rubble, Wood and Plant Hardware		17. Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004
18. Total Curies (mCi) .054	19 Transport Group III	20 Total Cubic Feet 520

UN2912

21 Waste Classification

<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form	Special Form	Fissile
<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date 8-28-84

G.E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper

J. E. Walck
Signature (G.E. Walck)

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received

Date of Delivery _____

Signature of Consignee or authorized Agent _____

Typed or Printed Name and Title _____

DHEC 802

(5/80)

Original. S. Carolina
Copy: Chem-Nuclear

(Copies of this form may be reproduced locally as needed)

UCCNHT0002222

Tri-State Motor Transit Company

Name of Carrier

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

UMETCO MINERALS CORPORATION

AT ~~Manhattan~~ ~~Ohio~~
Niagara Falls, NY

September 4, 19 84 From

~~METALS DIVISION~~
~~UNION CARBIDE CORPORATION~~

For use via carrier truck under the exclusive/sole use shipments/movements

the property described below in apparent good order except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as indicated below which said carrier (the word carrier being understood through out this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or a rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns

Consigned to ~~UCC Metals Division~~ **CHEM NUCLEAR SYSTEMS, INC. BARNWELL MANAGEMENT FACILITIES** SHIPPER'S ORDER NO _____ CUSTOMER'S ORDER NO _____

Destination ~~WYOMING~~ **BARNWELL (Osborn Road)** State ~~COLORADO~~ **S. Carolina** County ~~MONTROSE~~ **BARNWELL**

Route _____
Delivering Carrier **Tri-State Motor Transit** Car or Vehicle Initials **3992** No **445102** Seal **262505**

No Packages	Kind of Package, Description of Articles, Special marks, and Exceptions	*Weight (Sub to correction)	± Class or Rate	Check Column
8	Radioactive Materials, LSA, n o s (520 cu. ft.) Radioactive Material UN 2912 Uranium/Thorium Residues (From Chemical Processing) 100162 Max Curies per Package Less than one (1) pound source material - solid, metal oxide, contaminated soil, building rubble, wood and plant equipment.			
This is to certify that the above named materials are properly classified described packaged marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation				
Signed <i>S. E. Walck</i>				
Vehicle assigned for sole use of consignor Do not load other freight on the vehicle do not transfer in route and do not break the seal on truck				
Carrier hereby acknowledges that prior to or at the time this shipment was offered for transportation, the shipper provided or affixed according to applicable regulations the required placards or orange panels (including prescribed identification numbers) for each hazardous material named hereon				
Signed <i>Robert H. ...</i>				

Subject to Section 7 of Conditions of applicable bill of lading if this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

(Signature of consignor)

Charges are to be prepaid Write on stamp here - To be Prepaid

Third Party **PREPAID (See Below)***

Received \$ _____ to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per _____ (The signature here acknowledges only the amount prepaid)

Charges advanced

\$ _____

This shipment is correctly described

Correct weight is _____ lbs Subject to verification by the

***L.G. Evans**
Umetco Minerals Corp.

P.O. Box 97
Niagara Falls, NY 14302

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

~~METALS DIVISION~~ ~~UNION CARBIDE CORPORATION~~ **UMETCO MINERALS CORPORATION**

Per *S. E. Walck* Shipper **G.E. Walck** Agent
Permanent postoffice address of shipper UC 326-34

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

Part I: Shipper's Certificate of Compliance

1. Name of Shipper and Address: Umetco Minerals Corporation 137 - 47th Street Niagara Falls, NY 14302 Telephone No. (716)278-3361	2. Shipment Identification No. 0984-211A
	3. Transport Permit No. 0211-31-84-X

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date September 4, 1984
G.E. Walck, Construction Superintendent
Typed Name and Title of Agent of Shipper

G. E. Walck
Signature

Part II: Carrier's Certification

1. Name of Carrier and Address: Tri-State Motor Transit Company P.O. Box 113 Joplin, Missouri 64801 Telephone No. (300)641-7591	2. Shipment Identification No. 0984-211A
	3. Transport Trailer No. 445102
4. Scheduled Date of Departure of Shipment: September 4, 1984	5. Estimated Date of Arrival of Shipment: September 6, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that. (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date September 4, 1984
Clinton Williams
Typed or Printed Name and Title

Clinton Williams
Signature